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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

RECEIVED
IEPA

JUL 18 1994

IN THE MATTER OF:

Smith Overall Cleaning Company;

Raymond Smith;

Paul Butler; and

St. Clair County, as Trustee.

COLLINSVILLE OFFICE
File No. 9467

**NOTICE PURSUANT TO SECTION 4(q) OF
THE ILLINOIS ENVIRONMENTAL PROTECTION ACT**

I. GENERAL

This Notice is issued pursuant to the authority vested in the Illinois Environmental Protection Agency ("Agency") by Section 4(q) of the Environmental Protection Act ("Act"), 415 ILCS 5/4(q) (1992).

Smith Overall Cleaning Company, Raymond Smith, Paul Butler, and St. Clair County, as Trustee ("Parties") shall undertake all actions required by the terms and conditions of this Notice. Failure by the Parties to undertake such actions may result in sanctions, including but not limited to the sanctions described in Section XVIII of this Notice.

II. STATEMENT OF PURPOSE

The objectives of the Agency are: (1) to determine fully the nature and extent of the threat to the public health or welfare or the environment caused by the release or threatened release of hazardous substances, pollutants or contaminants from the Site

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Washington Park/Birken
Superfund Enforcement
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(the term "Site" is defined for purposes of this Notice as the facility described in Section III(A)), and (2) to evaluate and undertake appropriate response action to prevent or mitigate the migration or the release or threatened release of hazardous substances, pollutants, or contaminants from the Site. The activities conducted pursuant to this Notice are subject to approval by the Agency and shall be consistent with the Illinois Hazardous Substance Pollution Contingency Plan, 35 Ill. Adm. Code 750, as amended.

III. FINDINGS OF FACT

The following constitutes an outline of the facts upon which this Notice is based.

- A. The Site is comprised of several parcels of residential real estate including lots 644, 645, 646, and 647 located on 52nd Street, Washington Park, County of St. Clair, Illinois. The tax identification Number for the Site is No. 02-16-226-057.
- B. St. Clair County, as Trustee, is the current owner of the Site pursuant to a tax deed issued on October 26, 1993, and recorded November 17, 1993. A copy of the tax deed is attached as Exhibit A and incorporated by reference herein.
- C. Paul Butler was a previous owner of the Site.
- D. On May 19, 1988, the Agency received a complaint from the Chief of the Washington Park Fire Department regarding several drums that were observed to be leaking at the

Site.

- E. On May 23, 1988, the Agency conducted an investigation and discovered over one-hundred (100) drums at the Site. The drums were being stored on the ground. Some of the drums were leaking. There were no markings on any of the drums to indicate the contents.
- F. Three drums and one soil sample at the Site were analyzed and showed high levels of tetrachloroethene and several other solvents.
- G. On May 25, 1988, a conference was held with Paul Butler who indicated the drums contained perchloroethylene, a spent cleaning solvent. Paul Butler stated that Smith Overall Cleaning Company ("Smith Overall") paid him to take the drums from its facility located at 10822 Midwest Industrial, St. Louis, Missouri. Paul Butler stored the drums at the Site until a solvent reclaimer would remove and dispose of the drums.
- H. Raymond Smith as president of Smith Overall directed, made, or controlled, or was in a position to know, direct, make, or control the decisions and actions of Smith Overall regarding its disposal practices of hazardous substances.
- I. Paul Butler indicated that he had been receiving drums from Smith Overall for approximately two years. He would collect the drums from Smith Overall every three or four months, wherever a representative of Smith Overall would

contact him by letter. According to Paul Butler, he stopped picking up drums from Smith Overall in 1983 when the solvent reclaimer would no longer remove and dispose of the drums from the Site.

- J. On June 1, 1988, the Agency issued a pre-enforcement conference letter informing Smith Overall that the current condition of the Site was such that apparent violations of the Illinois Environmental Protection Act and/or rules and regulations adopted thereunder were occurring.
- K. On August 25, 1988, a pre-enforcement conference was held with Paul Butler and representatives of Smith Overall to discuss the apparent violations and the Agency's requirements for an appropriate cleanup of the Site.
- L. None of the parties submitted a timely plan to the Agency to remove the drums and remediate the soils at the Site.
- M. On March 9, 1989 and January 12, 1990, Records of Decisions ("RODS") were issued by the Director of the Agency. The RODS provided that the cleanup of the site would be conducted in two phases. Phase I consisted of inventorying, sampling, over-packing, and staging the wastes at the Site. Phase II consisted of removing, transporting, and disposing the wastes.
- N. Phase I was initiated by the Agency on March 13, 1989 and was completed on March 20, 1989. A total of 159 drums were staged and overpacked.

- O. Phase II was initiated by the Agency on May 26, 1990 and was completed on June 13, 1990.
- P. The Agency has incurred costs in the amount of \$107,066.00 for conducting the Phase I and Phase II response actions. These costs remain outstanding.
- Q. On November 2, 1993, The Agency took two soil samples from the area where the drums were previously stored at the Site. The analysis indicated the presence of 1,2-Dichloroethene at .140 ppm and Tetrachloroethene at .026 ppm.

IV. CONCLUSIONS OF LAW

A. The Site described in Section III(A) is a "facility" as defined in Section 22.2(h)(1) of the Act, 415 ILCS 5/22.2(h)(1) (1992).

B. Each of the Parties is a "person" as defined in Section 3.26 of the Act, 415 ILCS 5/3.26 (1992).

C. Wastes and constituents thereof at the Site are "hazardous substances" as defined in Section 3.14 of the Act, 415 ILCS 5/3.14 (1992).

D. The past, present, and/or potential migration of hazardous substances from the Site constitutes an actual and/or threatened "release" as defined in Section 3.33 of the Act, 415 ILCS 5/3.33 (1992).

E. The Parties are persons who may be liable pursuant to Section 22.2(f) of the Act, 415 ILCS 5/22.2(f) (1992), for a

release or threat of release of a hazardous substance.

V. DETERMINATIONS

Based on the Findings of Fact and Conclusions of Law set out above, the Agency has determined that:

- A. The release of hazardous substances from the Site which is described in Section III presents an immediate and significant risk of harm to human life and health and the environment.
- B. The actions required by this Notice are necessary to prevent or mitigate immediate and significant risk of harm to human life and health and the environment.

VI. IDENTIFIED RESPONSE ACTION

A. The Parties shall furnish the necessary personnel, materials, services, facilities, and otherwise do all things necessary for or incident to the performance of the work items set forth below.

B. Each Party shall notify the Agency in writing within thirty (30) days of the effective date of this Notice of the nature and extent of the corrective measures that such Party is willing to undertake to clean up the Site and a schedule for such action. If the Party fails to notify the Agency within thirty (30) days of the effective date of this Notice, the Agency will assume that such Party refuses to undertake a voluntary clean up of the Site, and the Agency will proceed accordingly.

The notification shall indicate the appropriate name, address, and telephone number for further contact with the Party, and shall include a statement of the type and extent of the activity which such Party is willing to undertake and a schedule for such action.

Where the Party is already involved in discussions with federal, state, or local authorities, engaged in a voluntary action or involved in a lawsuit regarding the Site, the notification shall contain a report of the status of those discussions or that action or lawsuit. A copy of the notification shall be provided to any other person involved in those discussions.

The notification shall be sent to:

Tammy Smith, Project Manager
Division of Remediation Management
Bureau of Land
Illinois Environmental Protection Agency
2200 Churchill Road
Post Office Box 19276
Springfield, Illinois 62794-9276

C. All work performed pursuant to this Notice shall be under the supervision of a qualified professional engineer or response cleanup contractor approved by the Agency. The professional engineer or contractor shall have expertise in the cleanup of hazardous substances.

D. The Parties shall obtain prior Agency approval of all contractors, subcontractors, consultants, and laboratories used to perform the Identified Response Action. In addition, the Agency shall be consulted routinely throughout the project to provide continued review and comments.

E. The Parties shall provide five (5) copies to the Agency of

all reports or other documents which must be submitted to the Agency under this Notice.

F. The Parties shall perform the following work at the Site as set forth in Exhibit B which is attached and incorporated by reference herein.

G. If so requested by any of the Parties, the Agency will conduct a meeting open to all potentially responsible Parties at the Agency's Springfield Office. The purpose of this meeting will be to discuss the issues addressed in this Notice. Please contact the following person if you want to request a meeting:

Bruce A. Kugler
Assistant Counsel
Division of Legal Counsel
Illinois Environmental Protection Agency
2200 Churchill Road
Post Office Box 19276
Springfield, Illinois 62794-9276

VII. DESIGNATED PROJECT COORDINATORS

The Agency and the Parties shall each designate a Project Coordinator. Each Project Coordinator shall be responsible for overseeing the implementation of this Notice. The Agency Project Coordinator will be the Agency's designated representative. To the maximum extent possible, communications between the Parties and the Agency and all documents, including reports, approvals, and other correspondence concerning the activities performed pursuant to the terms and conditions of this Notice, shall be directed through the Project Coordinators.

The Agency and the Parties each have the right to change their

respective Project Coordinators. Such a change shall be accomplished by notifying the other Party in writing at least five (5) calendar days prior to the change.

The Agency Project Coordinator and the Agency On-Scene Coordinator shall have the authority to halt, conduct, or direct any tasks required by this Notice and/or any response actions or portions thereof when conditions present an immediate risk to public health or welfare or the environment. In the event that the Agency Project Coordinator or On-Scene Coordinator halts such tasks for a specified period of time, the Parties shall be given an additional amount of time equal to the period of delay in order to complete subsequent tasks.

The absence of the Agency Project Coordinator or On-Scene Coordinator from the Site shall not be cause for the stoppage of work.

VIII. SAMPLING, ACCESS, AND DATA/DOCUMENT AVAILABILITY

The Parties shall make the results of all sampling and/or tests or other data generated by the Parties, or on the Parties' behalf, with respect to the implementation of this Notice, available to the Agency and shall submit these results upon request by the Agency. The Agency will make available to the Parties the results of sampling and tests or other data similarly generated by the Agency.

At the request of the Agency, the Parties shall allow split or duplicate samples to be taken by the Agency and its authorized

representatives, of any samples collected by the Parties pursuant to the implementation of this Notice. The Parties shall notify the Agency not less than 48 hours in advance of any sample collection activity.

The Agency and any Agency authorized representative shall have the authority to enter and freely move about all property at the Site at all reasonable times for the purpose of, inter alia: inspecting records, operating logs, and contracts related to the Site; reviewing the progress of the Parties in carrying out the terms of this Notice; conducting such tests as the Agency or the Project Coordinator deem necessary; using a camera, sound recording, or other documentary type equipment; and verifying the data submitted to the Agency by the Parties. The Parties shall permit such persons to inspect and copy all records, files, photographs, documents, and other writings, including all sampling and monitoring data, in any way pertaining to work undertaken pursuant to this Notice. All persons with access to the Site pursuant to this paragraph shall comply with all approved health and safety plans.

IX. RECORD PRESERVATION

The Parties shall preserve, during the pendency of this Notice and for a minimum of six (6) years after its termination, all records and documents in their possession or in the possession of their divisions, employees, agents, accountants, contractors, or attorneys which relate in any way to the Site, despite any document retention policy to the contrary. The Parties may fulfill this

obligation by retention on microfilm or other comparable record keeping. After this six (6) year period, the Parties shall notify the Agency thirty (30) calendar days prior to the destruction of any such documents. Upon request by the Agency, the Parties shall make available to the Agency such records or copies of any such records. Additionally, if the Agency requests that some or all documents be preserved for a longer period of time, the Parties shall comply with that request. Compliance with this paragraph shall not be construed to indicate a waiver of any applicable right or privilege.

X. RESERVATION OF RIGHTS

Notwithstanding compliance with the terms of this Notice, including the completion of the work set forth in section VI, the Parties are not released from liability, if any, for any actions beyond the terms of this Notice taken by the Agency respecting the Site. The Agency reserves the right to take any enforcement action pursuant to the Act or any available legal authority, including the right to seek injunctive relief, monetary penalties, and punitive damages for any violation of law or this Notice.

The Agency expressly reserves all rights that it may have, including the Agency's right both to disapprove of work performed by the Parties and to request that the Parties perform tasks in addition to those provided in this Notice. In the event the Parties decline to perform any additional or modified tasks, the Agency will have the right to undertake any such work.

In addition, the Agency reserves the right to undertake removal actions or remedial actions at any time. The Agency reserves the right to seek reimbursement from the Parties thereafter for any and all costs incurred by the State of Illinois related to the release or threat of release of hazardous substances at the Site.

XI. ABATEMENT OF ENDANGERMENT

In the event that the Director of the Agency determines that any activities implementing the Identified Response Action or in non-compliance therewith, or any other circumstances or activities are creating an imminent or substantial endangerment to the health and welfare of the people on the Site or in the surrounding area or to the environment, the Director may issue a Notice to cease further implementation of the Identified Response Action for such period of time as needed to abate the endangerment.

XII. REIMBURSEMENT OF COSTS

The Agency shall submit to the Parties an accounting of all response and oversight costs incurred by the State of Illinois with respect to this Notice and with respect to this Site. The response and oversight costs included in the accounting submitted by the Agency to the Parties shall include such costs incurred by the Agency during current and prior State fiscal years, including but not limited to all such costs incurred by the Agency prior to the effective date of this Notice. The Parties shall, within thirty

(30) calendar days of receipt of that accounting, remit a certified check for the amount of those costs made payable to the Treasurer - State of Illinois, with a notation for deposit in the Illinois Hazardous Waste Fund. Checks should specifically identify the Site and be addressed to:

Illinois Environmental Protection Agency
Fiscal Services
2200 Churchill Road
P.O. Box 19276
Springfield, Illinois 62794-9276

A copy of the transmittal letter shall be sent to the Agency's Project Coordinator.

The Agency reserves the right to bring an action against the Parties pursuant to the Act for recovery of all response and oversight costs incurred by the State of Illinois which are related to this Notice and not reimbursed by the Parties, as well as any other costs incurred by the State of Illinois in connection with response activities conducted pursuant to the Act at the Site.

XIII. ANNUAL HAZARDOUS WASTE GENERATOR REPORTS

All hazardous wastes generated at the Site through activities conducted pursuant to this Notice, or any subsequent Notice, are subject to annual reporting pursuant to 35 Ill. Adm. Code 722.141. Wastes treated and left on-site or wastes shipped off-site for storage, treatment, and/or disposal during any calendar year shall be reported to the Agency by March 1 of the following year. Additional information and appropriate report formats may be obtained from the Agency by contacting:

Planning and Reporting Section
Facility Reporting Unit
Division of Land Pollution Control
Illinois Environmental Protection Agency
Post Office Box 19276
2200 Churchill Road
Springfield, Illinois 62794-9276

Nothing in this Notice shall constitute or be construed as a release from any claim, cause of action or demand in law or equity against any person, firm, partnership, or corporation for any liability it may have arising out of or relating in any way to the generation, storage, treatment, handling, transportation, release, or disposal of any hazardous substances, hazardous wastes, pollutants, or contaminants found at, taken to, or taken from the Site.

XV. OTHER APPLICABLE LAWS

All actions required to be taken pursuant to this Notice shall be undertaken in accordance with the requirements of all applicable local, state and federal laws and regulations.

XVI. EFFECTIVE DATE AND SUBSEQUENT MODIFICATION

This Notice may be amended by the Agency. Such amendments shall be in writing and shall become effective upon the date on which the amendments are signed by the Agency.

Any reports, plans, specifications, schedules, and attachments required by this Notice are, upon approval by the Agency, incorporated into this Notice. Any non-compliance with such Agency approved reports, plans, specifications, schedules, and attachments

shall be considered a failure to perform the requirements of this Notice.

No informal advice, guidance, suggestions, or comments by the Agency regarding reports, plans, specifications, schedules, and any other writing submitted by the Parties will be construed as relieving the Parties of their obligation to obtain such formal approval as may be required by this Notice.

XVII. PARTIES BOUND

This Notice shall apply to and be binding upon the Parties and their agents, successors, and assignees and upon all persons, contractors, and consultants acting under or for either the Parties or the Agency or both.

No change in ownership, corporate, or partnership status relating to the Site will in any way alter the status of the Parties or in any way alter the Parties' responsibility under this Notice. The Parties will be responsible for carrying out all activities required of the Parties under this Notice.

XVIII. FAILURE TO COMPLY WITH THIS NOTICE

Pursuant to Section 22.2(k) of the Act, 415 ILCS 5/22.2(k) (1992), if a Party fails without sufficient cause to provide the Identified Response Action as set forth herein upon or in accordance with this Notice and request by the Agency, such failure may subject such Party to liability to the State of Illinois for punitive damages in an amount at least equal to, and not more than

three times, the amount of any costs incurred by the State as a result of such failure. The punitive damages shall be in addition to any costs recovered from the liable Party pursuant to said Section 22.2(k) of the Act, and in addition to any other penalty or relief provided by the Act or any other law.

XIX. TERMINATION AND SATISFACTION

The provisions of this Notice shall be deemed satisfied upon the Parties receipt of written Notice from the Agency that the Parties have demonstrated, to the satisfaction of the Agency, that all of the terms of this Notice, including any additional tasks which the Agency has determined to be necessary, have been completed.

By: Mary A. Gade
Mary A. Gade
Director
Illinois Environmental
Protection Agency

DATE: 6/22/94

PROOF OF SERVICE

I, the undersigned, on oath state that I have served the attached Notice pursuant to Section 4(q) of the Environmental Protection Act upon the persons to whom it is directed, by placing a copy in an envelope addressed to:

Raymond Smith Jr.
-Registered Agent-
Smith Overall Cleaning Company.
10822 Midwest Industrial Drive
St. Louis, MO 63132

Raymond Smith
Smith Overall Cleaning Co.
10822 Midwest Industrial Drive
St. Louis, MO 63132

Paul Butler
Route I, Box 106
Mountain View, MO 65548

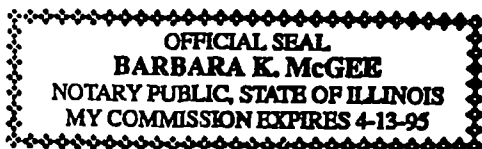
John Baricevic
Chairman of the County Board
St. Clair County
10 Public Square
Belleville, IL 62220

and sending it by Certified Mail, return receipt requested, from Springfield, Illinois on June 23, 1994 with sufficient postage affixed.

Tracy Runkles

SUBSCRIBED AND SWORN
TO BEFORE ME this 23^d day
of June 1994.

Barbara K. McGee
Notary Public



A01198471

STATE OF ILLINOIS)

BOOK 2917 PAGE 858

STATE OF ILLINOIS
ST. CLAIR COUNTY
FILED FOR RECORD IN
THE RECORDERS OFFICE

COUNTY OF ST. CLAIR)

1993 NOV 17 AM 8:34
BOOK 2917 PAGE 858

RECORDED

WHEREAS, At a public sale of Real Estate for the non payment of taxes, made in the county aforesaid, on the 17th day of January A.D., 1991 the following described Real Estate was sold, to wit:

Lots 644, 645, 646, and 647 of RUSMONT HEIGHTS, as recorded in Plat Book "S" Page 52.

Situated in the TOWNSHIP OF CANTON, County of St. Clair, State of Illinois.

Permanent Parcel No. 02 16 0 226 057

"Exempt Under Sec. 4 Par (F)"

AND WHEREAS, the same not having been redeemed from said sale, and it appearing that the holder of the Certificate of Purchase of said Real Estate has complied with the laws of the State of Illinois to entitle St. Clair County, as Trustee to a Deed of said Real Estate:

NOW THEREFORE, Know Ye, That I, Janice D. Delaney, County Clerk of said County of St. Clair, in consideration of the premises and by virtue of the statutes of the State of Illinois in such cases provided, do hereby grant and convey unto St. Clair County, as Trustee, its heirs, and assigns forever, the said Real Estate hereinbefore described.

GIVEN under my hand and the seal of the County of St. Clair, this 20th day of October A.D. 1993.



(Seal)

Janice D. Delaney
Janice D. Delaney, County Clerk
Tom Messer
Deputy

Return this Document to:
St. Clair County, Trustee
P.O. Box 96
Edwardsville, IL 62025

Prepared by:
Stephen P. Schrimpf
Assistant State's Attorney
141 St. Andrews Avenue
Edwardsville, Illinois 62025

Exhibit B

SCOPE OF WORK

For performance of a remedial investigation, baseline risk assessment and a feasibility study at the Butler Site, Washington Park, Illinois IEPA LPC #1631450006 in accordance with the Illinois Hazardous Substances Pollution Contingency Plan, 35 Ill. Adm. Code 750, as amended.

A. EXECUTIVE SUMMARY

The Consultant shall furnish, upon approval of the Illinois Environmental Protection Agency (hereinafter, "Agency"), the necessary personnel, services, facilities, materials, and otherwise do all things for or incidental to the performance of the following three (3) part projects at the above referenced Site (hereinafter, "Site"):

Part I. Site Specific Sampling Plan & Analysis

Part II. Removal and Disposal of Contaminated Soils & Debris

Part III. Groundwater Survey & Investigation

B. STATEMENTS OF PURPOSE

The purpose of the Site Specific Sampling Plan is to determine the nature and extent of contamination in the soils at the Site. Information generated through this process will be employed to assist in determining the amount of soil to be removed and how to properly dispose of the soil. The purpose of the Groundwater Survey and Investigation is to determine if the local groundwater has been impacted by the contamination at the Site.

C. ORGANIZATIONAL OUTLINE

The Consultant shall organize, schedule and perform each part of the project at the Site in accordance with the following outline:

TASK 1. Remedial Investigation Work Plan

- a. Administration Outline
- b. Site Specific Sampling Plan
- c. Site Specific Health and Safety Plan
- d. Community Relations Plan

TASK 2. Conduct of Site Investigation [Soils Investigation]

TASK 3. Remedial Investigation Final Report

- a. Introduction and Site Background Information
- b. Remedial Investigation Activities
- c. Remedial Investigation Results

TASK 4. Soil Debris & Removal Work Plan [Administrative Outline]

TASK 5. Conduct of the Soil & Debris Removal

TASK 6. Groundwater Survey & Investigation [Hydrogeologic Investigation]

D. REQUIREMENTS AND GUIDANCE

Requirements and guidance for performance of the proceeding outlined Tasks and Subtasks are promulgated as follows:

TASK 1. Remedial Investigation Work Plan

Subsequent to approval by the Agency of the Site Preliminary Report, the Consultant shall prepare and submit to the Agency for review and approval a Remedial Investigation Work Plan for the conduct of Site Investigations. Information compiled in evaluating the current situation and presented in the Site Preliminary Report should be incorporated into preparation of the Work Plan.

a. Administrative Outline

The Consultant shall prepare a general outline defining the RI objectives, technical approach to meeting those objectives, project organization and designation of key personnel, personnel requirements and project schedule. The project schedule shall include time allocation for review by the Agency and revision by the Consultant of all project deliverables subject to review and revision. In order to show progressional scheduling of the tasks, a bar chart or other acceptable format shall be provided showing task scheduling.

b. Site Specific Sampling Plan

The Consultant shall prepare a stand-alone Site Specific Sampling Plan to address all phases and media of field investigations conducted pursuant to this Scope of Work. The sampling plan should be designed to provide for those data deficiencies identified in the Site Preliminary Report and to meet the RI objectives stated in the administrative outline. Only those data that are both necessary and sufficient to meet the objectives of each investigation should be proposed for collection. Sample matrices may include groundwater and soil sampling. The Site Specific Sampling Plan should, at a minimum, contain the following:

- Organization of the field sampling team(s) to include a definition of field sampling team member jobs and responsibilities and names of individual field sampling team members by billet.
- A description and examples of the proposed sample identification and numbering system.
- Field documentation procedures to include photography of collected batches and field notebook logging.
- Sample shipment and chain of custody procedures.
- Decontamination procedures.

- By matrix, a description of sampling to include a definition of sampling objectives, a location map identifying all sample locations, sample frequency by location, analyses of interest per sample, rationale for sample selection, schedule for both sample collection and analyses, and an equipment list identifying major items and appropriate specifications of sampling equipment. Facsimiles of all standard forms to be employed in the recording and shipment of samples and in the logging of field data shall be included. A table should be provided to identify the number of samples to be collected with the appropriate number of replicates and blanks.
- By matrix, detailed descriptions of all pertinent methods, procedures, protocols and contingencies anticipated to be employed in the collection of samples and field data.

The Site Specific Sampling Plan should be in no way vague but should be as precise as is possible to present it. Where investigations are anticipated to be conducted in phases or the scope of the sampling plan is to be reevaluated, the Consultant shall be required to submit a technical memorandum to the Agency for review and approval at such time as the objectives of the Site Specific Sampling Plan have been met and evaluated or at such time as the Agency concurs that the approved plan is inadequate or superfluous and should be voided. Where a subsequent phase of sampling or a change in the scope of sampling is required to meet objectives, the Consultant shall submit to the Agency for review and approval a Revised Site Specific Sampling Plan.

c. Site Specific Health and Safety Plan

The Consultant shall prepare and submit for Agency approval a Site Specific Health and Safety Plan to establish requirements and procedures for protecting the health and safety of all personnel involved in or affected by activities conducted at the Site. At a minimum, the health and safety plan must include the following:

- Description of Known Hazards and Risks
- Identification of Key Personnel and Alternates
- Designation of Levels of Protection to be Worn
- Delineation of Work Areas
- Identification of Control Procedures
- Establishment of Decontamination Procedures
- Requirements for Air Monitoring and Sampling
- Requirements for Routine and Special Training
- Procedures for Weather - Related Problems

The plan must also address Site emergencies or any occurrences that require immediate actions to prevent harm to personnel, the public, property or the environment.

The Site Specific Health and Safety Plan shall be consistent with the following:

- NIOSH Occupational Safety and Health Guidance Manual for Hazardous Waste Site Activities
 - EPA Order 1440.1 - Respiratory Protection
 - EPA Order 1440.3 - Health and Safety Requirements for Employees Engaged in Field Activities
 - EPA Standard Operating Safety Guide (1984)
 - OSHA regulations
 - State and local regulations
 - Other IEPA guidance as provided
- d. Community Relations Plan

The Consultant may be requested to assist the Agency in the conduct of a community relations program for the Site. The Consultant shall prepare and submit for Agency approval a Community Relations Plan for the Site identifying all anticipated community contact or involvement necessary for the conduct of Site activities pursuant to this Scope of Work. Community relations support requested of the Consultant may include:

- Revisions or additions to community relations plans including definition of community relations program needs for each remedial activity at the Site.
- Assessment of community attitudes about Site problems and any proposed activities at the Site.
- Preparation of news releases, fact sheets, slide presentations, exhibits and other audio-visual materials designed to apprise the community of current or proposed actions at the Site.
- Establishment of a community information center and arrangement of briefings, press conferences and public or other informal meetings. At a minimum, an initial meeting to describe the Clean Illinois Program and the RI/FS and a hearing before or during the public comment period on the feasibility study are required at most sites.
- Preparation of reports and participation in public meetings, project review meetings and the meetings as necessary to the normal progress of investigations at the Site.
- Conduct of Site tours and briefings.

All community relations support must be consistent with Superfund community relations policy as stated in "Guidance for Implementing the Superfund Program," Community Relations in Superfund -- A Handbook, and past practices and policy of the Agency's Community Relations Unit.

TASK 2. Conduct of Site Investigations

Subsequent to Agency approval of the RI Work Plan, the Consultant shall undertake those investigations necessary and sufficient to adequately characterize the Site and to provide a basis for evaluation of applicable remedial alternatives for redress of Site contamination.

Soils Investigation

The Consultant shall conduct an investigation to characterize soils and rock units to fifteen (15) feet into the first bedrock aquitard, to assess contamination of soils and rock units within the vadose zone and in the vicinity of contaminant releases.

Characterization of soil physical properties should include:

- SCS soil classification
- Surface soil distribution
- Soil profile, including ASTM classification of soils
- Transects of soil stratigraphy
- Hydraulic conductivity (saturated and unsaturated)
- Bulk density
- Porosity
- Soil sorptive capacity
- Cation exchange capacity
- Soil organic content
- Soil pH
- Particle size distribution
- Depth of water table
- Moisture content
- Effect of stratification on unsaturated flow
- Infiltration
- Storage capacity
- Vertical flow rate

Assessment of contamination of soils and rock units within the vadose zone should include:

- A description of the vertical and horizontal extent of contamination.
- A description of contaminant and soil chemical properties within the contaminant source area and plume. The description should include contaminant solubility, speciation, adsorption, leachability, exchange capacity, biodegradability, hydrolysis, photolysis, oxidation and other factors that might affect contaminant migration and transformation.
- Specific contaminant concentrations.
- The velocity and direction of contaminant movement.

TASK 3. Remedial Investigation Final Report

Upon completion of the Site investigation and analysis, the Consultant shall prepare and submit for Agency approval a Remedial Investigation Final Report. The Report should document all RI objectives, all RI activities, all RI results, all RI analyses, and RI conclusions and recommendations. The RI report shall, at a minimum contain the following:

a. Introduction and Site Background Information

The RI Report is intended to serve as a stand-alone document and complete reference in regard to the RI. Site background data as presented in the Preliminary Report should be iterated or, as modified in accordance with investigative findings, should be noted corrected. This section of the Report should identify RI objectives and, briefly, the technical approach applied to meeting those objectives.

b. Remedial Investigation Activities

The Consultant shall document all RI activities undertaken in sufficient scope and detail to ensure compliance with requirements of project work plans and to effect reproducibility and comparability of any ancillary data subsequently required. This section should indicate any deviations from the work plan or any problems encountered in the performance of the RI.

c. Remedial Investigation Results

The Consultant shall submit the results and data from all Site investigations in an appropriate format such that all information is organized and presented logically and that relationships between Site investigations for each medium are apparent.

TASK 4. Soil & Debris Removal Work Plan

Subsequent to Agency approval of the RI Final Report, the Consultant shall prepare and submit for Agency approval a Soil & Debris Removal Plan.

Administrative Outline

The Consultant shall prepare an administrative outline defining the objectives, technical approach to meeting those objectives, project organization and designation of key personnel, personnel requirements and project schedule. The project schedule shall include time allocation for review by the Agency and revision by the Consultant of all project deliverables subject to review and revision. In order to show progressional scheduling of the tasks, a bar chart or other acceptable format shall be provided showing task scheduling.

TASK 5. Conduct of the Soil & Debris Removal

Subsequent to Agency approval of the Soil & Debris Removal Work Plan, the Consultant shall perform the excavation and disposal of the contaminated soil and debris.

TASK 6. Groundwater Survey & Investigation

Hydrogeologic Investigation

The Consultant shall conduct an investigation to characterize hydrogeologic conditions and the nature, concentration and extent of groundwater contamination at the Site.

Characterization of Site and local hydrogeology should provide the following:

1. A description of the regional and Site specific geologic and hydrogeologic features affecting groundwater flow beneath the Site including:
 - i. Regional and facility specific stratigraphy, descriptions of strata strike and dip and identification of stratigraphic contacts.
 - ii. Structural geology, description of local and regional structural features (e.g. folding, faulting, tilting, jointing, etc.)
 - iii. Depositional history.
 - iv. Identification and characterization of areas and amounts of recharge and discharge.
 - v. Regional and facility specific groundwater flow patterns.
 - vi. Characterization of seasonal variations in the groundwater flow regime.
2. An analysis of any topographic features that might influence the groundwater flow system.
3. Based upon field data, tests and cores, a representative and accurate classification and description of the hydrogeologic units which may be systemic to the contaminant migration pathways at the Site, including:
 - i. Hydraulic conductivity and porosity (total and effective).
 - ii. Lithology, grain size, sorting, degree of cementation.
 - iii. An interpretation of hydraulic interconnections between saturated zones.
 - iv. The attenuation capacity and mechanisms of the natural earth materials (e.g. ion exchange capacity, organic carbon content, mineral content, etc.).
4. Based upon field studies and cores, structural geology and hydrogeologic cross sections showing the extent (depth, thickness and lateral extent) of hydrogeologic units which may be part of the migration pathways identifying:
 - i. Sand and gravel deposits in unconsolidated deposits.
 - ii. Zones of fracturing or channeling in consolidated or unconsolidated deposits.
 - iii. Zones of higher permeability or lower permeability that might direct and restrict the flow of contaminants.
 - iv. The uppermost aquifer, geologic formation, group of formations, or part of formation capable of yielding a significant amount of groundwater to wells or springs.
 - v. Water bearing zones above the first confining layer that may serve as a pathway for contaminant migration including perched zones of saturation.

5. Based upon data obtained from groundwater monitoring wells and piezometers installed upgradient and downgradient of potential contaminant sources, a representative description of water level or fluid pressure monitoring including:
 - i. Water level contour and/or potentiometric maps.
 - ii. Hydrologic cross sections showing vertical gradients.
 - iii. The flow system, indicating the vertical and horizontal components of flow.
 - iv. Any temporal changes in hydraulic gradients.
6. A description of manmade influences that may affect the hydrogeology of the Site, identifying:
 - i. Active and inactive local water supply and production wells with an approximate schedule of pumping.
 - ii. Manmade hydraulic structures (pipelines, french drains, ditches, field tiling, unlined ponds, septic tanks, NPDES outfalls, retention areas, etc.)

Characterization of the nature, concentration and extent of groundwater contamination at the Site should include:

- Physical parameters such as pH, temperature and conductivity.
- A description of the horizontal and vertical extent of any immiscible or dissolved plume(s) originating at the Site.
- The horizontal and vertical direction of contaminant migration.
- The velocity of contaminant migration.
- The maximum concentrations of each contaminant in the plume(s).
- The horizontal and vertical concentration profiles of constituents found in the plume(s).
- An evaluation of factors influencing the plume movement.
- An extrapolation of future contaminant migration.

Investigative efforts should begin with a survey of previous hydrogeologic studies and other existing data. The survey should address the degree of hazard, the mobility of contaminants considered, the soils attenuation capacity and mechanisms, discharge/recharge areas, regional flow directions and quality and effects of any pumping alternatives that are developed, if applicable. The corresponding sampling plan for hydrogeologic investigations should be designed to determine the horizontal and vertical distribution of contaminants. Geophysical techniques may be applied to help define Site geology and the accuracy of contaminant assessment. Where existing data does not supply sufficient information, techniques such as seismic refraction may be used to define depth to bedrock. Resistivity or conductivity testing, where applicable, may be used to help delineate areas with contaminated groundwater. However, no geophysical investigation shall be used to replace direct sampling and analyses for contaminants.

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